

Title (en)  
METHOD AND DEVICE FOR PRODUCING STRAIGHT CERAMIC FIBRES

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG GERADER KERAMISCHER FASERN

Title (fr)  
PROCEDE ET DISPOSITIF DE PRODUCTION DE FIBRES CERAMIQUES DROITES

Publication  
**EP 1430005 A2 20040623 (DE)**

Application  
**EP 02774349 A 20020916**

Priority  
• DE 0203419 W 20020916  
• DE 10145640 A 20010915

Abstract (en)  
[origin: WO03024891A2] The invention relates to an installation and method for producing straight ceramic fibres. Said installation essentially comprises a mixing device for producing a suspension of ceramic powder, aqueous amine oxide and cellulose. The suspension production occurs batch-wise or continuously and can take place in one or several steps with the addition of all or individual components. Said installation also comprises a device for concentrating the produced suspension of ceramic powder, aqueous amine oxide and cellulose, whereby said device intensively mixes with heating, shears and transports the suspension with water evaporation, until a precisely determined amount of water evaporates and a suspension of ceramic powder is formed in a mouldable solution of the cellulose in aqueous amine oxide. Said concentrating device also comprises a device linked to the above mentioned device, whereby the mouldable ceramic cellulose solution suspension is processed into ceramic raw fibres in a rope shape. Said concentrating device permits straight ceramic raw fibres to be formed and can be integrated with an installation, in which the raw fibre bundles are pyrolyzed and sintered.

IPC 1-7  
**C04B 35/622**; C08B 1/00; C08J 3/21; D01F 1/02; D01F 2/02

IPC 8 full level  
**C04B 35/622** (2006.01); **C08L 1/02** (2006.01); **D01F 1/10** (2006.01); **D01F 2/00** (2006.01); **D01F 9/08** (2006.01)

CPC (source: EP US)  
**C04B 35/62245** (2013.01 - EP US); **C04B 35/6225** (2013.01 - EP US); **C04B 35/62286** (2013.01 - EP US); **C04B 35/62625** (2013.01 - EP US); **C04B 35/6365** (2013.01 - EP US); **C08L 1/02** (2013.01 - EP US); **D01F 1/10** (2013.01 - EP US); **D01F 2/00** (2013.01 - EP US); **D01F 9/08** (2013.01 - EP US); **C04B 2235/3249** (2013.01 - EP US); **C04B 2235/3296** (2013.01 - EP US); **C04B 2235/3463** (2013.01 - EP US); **C04B 2235/3869** (2013.01 - EP US); **C04B 2235/3873** (2013.01 - EP US)

Citation (search report)  
See references of WO 03024891A2

Designated contracting state (EPC)  
AT CH DE FR GB LI

DOCDB simple family (publication)  
**WO 03024891 A2 20030327**; **WO 03024891 A3 20030703**; AT E386710 T1 20080315; AU 2002340735 A1 20030401; DE 10145640 A1 20030410; DE 50211744 D1 20080403; EP 1430005 A2 20040623; EP 1430005 B1 20080220; JP 2005511901 A 20050428; US 2006061018 A1 20060323

DOCDB simple family (application)  
**DE 0203419 W 20020916**; AT 02774349 T 20020916; AU 2002340735 A 20020916; DE 10145640 A 20010915; DE 50211744 T 20020916; EP 02774349 A 20020916; JP 2003528743 A 20020916; US 48924304 A 20040311